

~~3~~³20. The data storage medium as claimed in claim ~~18~~³, wherein PMMA or BOPP is used as polymer film (11).

~~4~~⁴21. The data storage medium as claimed in claim ~~19~~², wherein between the polymer film layers (10) a transparent adhesion agent (12) is used, in particular a pressure sensitive adhesive.

~~5~~⁵22. The data storage medium as claimed in claim ~~21~~⁴, wherein the adhesion agent (12) possesses a refractive index which differs little from the refractive index of the information carrier.

~~6~~⁵23. The data storage medium as claimed in claim ~~22~~⁵, wherein the difference in the refractive indices of information carrier and adhesion agent (12) is so little that the reflection at the boundary is less than 4 %, preferably less than 1 %, and, with very particular preference, such that the difference in the refractive indices is less than 0.005.

~~7~~⁷24. The data storage medium as claimed in claim ~~19~~³, wherein the polymer film (11) has a thickness of between 10 and 100 μm , preferably around or below 50 μm , with particular preference around 35 μm .

~~8~~⁸25. The data storage medium as claimed in claim ~~21~~⁴, wherein the adhesion agent (12) has a film thickness of between 1 and 40 μm , preferably below 25 μm , in particular around 2 μm .

~~9~~⁹26. The data storage medium as claimed in claim ~~18~~¹, wherein the data storage medium has an optically transparent winding core which is formed in particular as a transparent hollow cylinder.

~~10~~¹⁰27. The data storage medium as claimed in claim ~~18~~¹, wherein the data storage medium is preformatted, the formatting being formed by and/or by means of the spiral layers (10).

~~11~~¹¹28. The data storage medium, in particular as claimed in claim ~~18~~¹, wherein the optical data storage medium comprises as information carrier a transparent polymer film (11) which is pretensioned, especially in two planes.

~~12~~¹²29. The data storage medium as claimed in claim ~~18~~¹, wherein the information units, or some of them, can be produced by local thermal heating of the information carrier.